

Title (en)
Aluminium alloy superplastic strip.

Title (de)
Superplastisches Blech aus einer Aluminiumlegierung.

Title (fr)
Tôle superplastique en alliage d'aluminium.

Publication
EP 0462056 A1 19911218 (DE)

Application
EP 91810411 A 19910530

Priority
CH 195990 A 19900611

Abstract (en)
The fine-grained recrystallised sheet having superplastic properties consists of a cold-work-hardenable, age-hardenable AlMgZn alloy. <??>The alloy with 3-5.5% of magnesium, 2-8% of zinc, 0-4% of copper, 0-1% of manganese, 0-0.5% of iron, 0-0.4% of chromium, 0-0.4% of molybdenum, 0-0.4% of zirconium, 0-0. % of silicon and 0-0.05% of titanium, the remainder being aluminium of commercial purity, is homogenised after continuous casting and rolled down hot. After intermediate annealing, if appropriate, the strip is rolled down cold with a high degree of cold-rolling to the final thickness, recrystallised with rapid heating for softening and cooled down.

Abstract (de)
Das feinkörnig rekristallisierte Blech mit superplastischen Eigenschaften besteht aus einer kaltverfestigbaren, aushärtbaren AlMgZn-Legierung. Die Legierung mit 3-5,5% Magnesium, 2-8% Zink, 0-4% Kupfer, 0-1% Mangan, 0-0,5% Eisen, 0-0,4% Chrom, 0-0,4% Molybdän, 0-0,4% Zirkon, 0-0, % Silizium und 0-0,05% Titan, Rest Aluminium handelsüblicher Reinheit, wird nach dem Stranggießen homogenisiert und warm abgewalzt. Nach einer allfälligen Zwischenglühung wird das Band mit hohem Kaltwalzgrad kalt an die Enddicke abgewalzt, mit rascher Erwärmung zur Entfestigung rekristallisiert und abgekühlt.

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C22C 21/06; C22C 21/10; C22F 1/047; C22F 1/053

IPC 8 full level
C22C 21/06 (2006.01)

CPC (source: EP US)
C22C 21/06 (2013.01 - EP US); **Y10S 420/902** (2013.01 - EP US)

Citation (search report)

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